

Claims

Sub B3

1. A device for intravascular cardiac valve surgery comprising a micro axial pump (40) fastened to a catheter (10) and having a tubular pump portion (14), and a dilating device (18) surrounding the pump portion (14) which dilating device is suitable for breaking a stenosis of a cardiac valve when positioned in said cardiac valve (AK).
2. The device of claim 1, characterized in that the dilating device (18) consists of an annular high-pressure balloon inflatable with at least 1.0 bar.
3. The device of claim 1 or 2, characterized in that the pump portion (14) comprises a pump ring (15) and a tubular cannula (16) connected therewith.
4. The device of one of claims 1-3, wherein the high-pressure balloon sits on a rigid annular support.
5. A device for intravascular cardiac valve surgery comprising a micro axial pump (40) fastened to a catheter (10) and having a tubular pump portion (14), a dilating device (18) for expanding a stent (21), and a stent (21) carrying a folded flexible cardiac valve prosthesis (20) and being adapted to be expanded by the dilating device (17).
6. The device of claim 5, wherein the cardiac valve prosthesis (20) is sewn to the stent (21).
7. The device of claim 5 or 6, wherein the cardiac valve prosthesis (20) has a hose-shaped wall (24) that is folded together with a balloon wall of the dilating device (17).